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AMSAT NEWS SERVICE
ANS-127

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

ANS-127 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2023 May 7

AMSAT at Hamvention 2023

The Dayton Hamvention is coming May 19th-21st! AMSAT’s presence includes several events throughout the weekend and in with eight adjoining booths in Building 1. Highlighting the exhibit will be:

- SatPC32 software demonstrations
- The AMSAT CubeSat Simulator
- The AMSAT Youth Initiative / KidzSat
- AMSAT Engineering staff question and answer table
- OSCAR ground station for live satellite operations
- Annual Membership sign-up and renewals
- AMSAT President's Club recognition
- AMSAT Board of Directors and Senior Officers Meet and Greet
- AMSAT Store offering AMSAT trinkets, books and Arrow Antennas
- And much more!

The interaction with AMSAT members, satellite operators, designers, and

builders makes the whole experience a lot of fun. Meet or renew acquaintances, exchange operating tips, and find out what antennas, software and equipment other AMSAT members use. We currently expect many of AMSAT's senior officers and board members to be there too.

Thursday, May 18th - Dinner at Tickets

The annual AMSAT "Dinner at Tickets" party will be held at Tickets Pub & Eatery on Thursday, May 18 from 6:00 PM to 8:00 PM EDT. There is no program or speaker - just good conversation. Everyone is invited regardless of whether or not they helped with setup or plan to work in the booth. Tickets has a great selection of Greek and American food and great company! Food can be ordered from the menu; drinks (beer, wine, sodas and iced tea) are available at the bar.
Come as you are; no reservations required. Bring some friends and have a great time the night before Hamvention. Tickets Pub & Eatery is located at 7 W. Main St, Fairborn, OH 45324. (Telephone (937) 878-9022)

Friday, May 19th - TAPR/AMSAT Banquet

The 14th Annual TAPR/AMSAT Banquet will be held at the Kohler Presidential Banquet Center on Friday, May 19th at 18:30 EDT. This dinner is always a highlight of the TAPR (Tucson Amateur Packet Radio) and AMSAT (Radio Amateur Satellite Corp.) activities during the Dayton Hamvention. This year’s menu includes:

Cash Bar
Regular and Decaf Coffee, Hot & Iced Tea, Water

Appetizer
– Crudite Platter (with dip on the side)

Buffet
– Roast Prime Rib of Beef Au Jus (Carved on site. Served with horseradish and au jus on the side)
– Santa Fe Chicken (with Pepper Cheese Jalapeno Hollandaise)
– Deep Fried Tempura Shrimp (with Tomato Lemon Aioli)
– Risotto Cake
– Fresh Asparagus
– Smashed Cauliflower

Served to the Table
– Strawberry Fields
– Assorted Dinner Rolls (Served with butter)

Dessert
– Assorted Layer Cake
– Cheesecake

Tickets ($60 each) may be purchased from the AMSAT store at https://www.amsat.org/product/2023-tapr-amsat-joint-hamvention-banquet-registration/. The banquet ticket purchase deadline is Friday, May 12th. Banquet tickets must be purchased in advance and will not be sold at the AMSAT booth. There will be no tickets to pick up at the AMSAT booth. Tickets purchased on-line will be maintained on a list with check-in at the door at the banquet center. Seating is limited to the number of meals reserved with the Kohler caterers based on the number of tickets sold by the deadline.

The Kohler Presidential Banquet Center is located at 4548 Presidential Way, Kettering, Ohio – about 20 minutes away from the Greene County Fairgrounds.

Saturday, May 20th - AMSAT Hamvention Forum

The AMSAT forum will be held from 1:10 PM - 2:10 PM in Forum Room 2. The

forum will include updates on AMSAT's operations, engineering, and Youth Initivative, and development programs.

Arrive early, grab a seat, take in some air conditioning and catch up on the latest AMSAT happenings!

Other Hamvention Events for Satellite Enthusiasts

Dayton Hamvention Youth Forum - Saturday, May 20 at 9:15 AM in Forum Room 2

AMSAT member Grace Papay (KE8RJU) will present on the topic of “Amateur Radio Satellites Near and Far”

Come support one of AMSAT’s youth ambassadors!

ARISS Events at Hamvention

ARISS will be joining in the Dayton Hamvention experience this year with a booth, a forum and four mini-forums. Dayton Hamvention is May 19-21 in Xenia, Ohio this year.

ARISS’ International Chair Frank Bauer, KA3HDO, will lead the main forum, “ARISS 2.0: The future vision for Amateur Radio on the International Space Station” on Saturday at 12:10 PM in Forum Room 2.
In December 1983, Astronaut Owen Garriott, W5LFL, electrified the world via his ham communications from the Space Shuttle Columbia. Starting at Hamvention 2023, ARISS will spend a year celebrating 40 years of amateur radio on human spaceflight vehicles! Our new vision, ARISS 2.0, will expand ARISS youth education outcomes, ham-in space operations, flight hardware systems, and even our space platform (in addition to ISS, think commercial space stations and lunar operations). Learn what ARISS is doing to support ham radio operations on human spaceflight vehicles – now and over the next 40 years. Expect some surprise guests and new announcements.

The ARISS booth will be in building 4, the “Volta” building. Four mini-forums will be hosted in the booth area. Those include:

Friday - 10:00 AM: ARISS Educational Opportunities: SPARKing Interest in Amateur Radio in Teachers and Students
Presented by: Dan White (AD0CQ) ARISS-US Education Committee and professor of electrical and computer engineering at Valparaiso University

Learn how ARISS engages educators and students, including a demonstration of the SPARKI kit and STAR robot.

Friday - 2:00 PM: ARISS Engineering
Presented by: Randy Berger (WA0D), ARISS-USA Director of Engineering
Find out more about how ARISS integrates with the space program partners and new design concepts.

Saturday – 10:00 AM: ARISS How To - Intro to working the repeaters on the ISS –
Presented by: Randy Berger (WA0D), ARISS-USA Director of Engineering
Want to know how to get started making contact with and through the ISS or interested in becoming an ARISS technical mentor, find out more in this session.

Saturday – 2:00 PM – ARISS Post-Forum Q&A / Meet and Greet
Hosted by: Frank Bauer (KA3HDO) – ARISS International Chair and the ARISS team
Meet some of the team that makes things happen behind the scenes and get all your ARISS questions answered.

[ANS thanks AMSAT for the above information]

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AMSAT, a portion of the proceeds goes towards
Keeping Amateur Radio in Space.
https://amsat.org/product-category/hardware/

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Also, one needs to be aware of their normal daily schedule. I have listed below the constraints that we at ARISS have to follow in order to schedule the school contacts. Hopefully this will help you better schedule your opportunities.

Typical daily schedule

Wakeup to Workday start= 1.5 hours
Workday start to Workday end=12 hours
Workday end to Sleep= 2 hours
Sleep to wakeup= 8.5 hours

The crew's usual waking period is 0730 - 1930 UTC. The most common times to find a crew member making casual periods are about one hour after waking and before sleeping, when they have personal time. They're usually free most of the weekend, as well.

SSTV events are not that often. So please check out https://www.ariss.org/ for the latest information or watch for the ARISS announcements.

And don’t forget that the packet system is active.

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol.

ARISS Radio Status

Columbus Module radios:
IORS (Kenwood D710GA) – STATUS - Configured. Default mode is for cross band repeater (145.990 MHz up {PL 67} & 437.800 MHz down).
* Powering off for Russian EVA targeting May 12. OFF May 12 about 10:30 UTC. ON May 13 about 13:15 UTC.
* Powering off for Progress 84 docking on May 24. OFF TBD . ON TBD.
* Capable of supporting USOS scheduled voice contacts, packet and voice repeater ops.

Service Module radios:
IORS (Kenwood D710GA) – STATUS - Configured. Default mode is fo packet operations (145.825 MHz up & down)
* Powering off for Russian EVA targeting May 12. OFF May 12 about 10:30 UTC. ON May 13 about 13:15 UTC.
* Powering off for Progress 84 docking on May 24. OFF TBD . ON TBD.
* Capable of supporting ROS scheduled voice contacts, packet, SSTV and voice repeater ops.

The latest information on the operation mode can be found at https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

Upcoming Satellite Operations

>From Mike, N8MR:

I will be in EN84, EN85 and EN76 from Friday, May 26 thru Monday, May 29. Using an Icom 9700, Arrow antenna and SAT controller. Listening for Europe for eastern passes. All QSOs going to LoTW as N8MR.

Major Roves:
I post ’em as soon as I know about ’em. Just be aware that I still work roughly 60 hours a week. Tnx!

Please submit any additions or corrections to k5zm (at) comcast (dot) net.

[ANS thanks Ian Parsons, K5ZM, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ Dayton Hamvention
  May 19-21
  Greene County Fair and Expo Center, 210 Fairground Road, Xenia 45385
  https://hamvention.org/

+ TAPR/AMSAT Banquet
  May 19, 2023
  Kohler Presidential Banquet Center is located at 4548 Presidential Way, Kettering, Ohio
  Reservations are required and available at the AMSAT Store
  https://www.amsat.org/product-category/amsat-at-hamvention/.

+ AMSAT Symposium and Annual Meeting
  October 20-21, 2013
  Dallas, Texas

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

AMSAT Ambassador Clint Bradford, K6LCS, says,

"Think a 75-minute presentation on "working the easy satellites" would be appropriate for your club or event? Let me know by emailing me at k6lcsclint (at) gmail (dot) com or calling me at 909-999-SATS (7287)!"

Clint has NEVER given the exact same show twice: EACH of the 150+ presentations so far has been customized/tailored to their audiences. An email message received after a recent presentation:

"I really enjoyed Clint's presentation last night. The fact that he had taken the time to research and know something about his audience and welcomed interaction made it very informative and enjoyable. This was a refreshing change from many canned YouTube presentations I've tried to watch, which were poorly done, fuzzy video or muddy audio, or a badly prepared presenter stumbling his way through, with any valuable info lost along the way. Thanks for hooking this one up."

[ANS thanks Clint Bradford, K6LCS, and AMSAT for the above information]

Satellite Shorts From All Over

+ Four of the eight Tevel satellites were activated this weekend. The FM

transponders on Tevel-3, Tevel-4, Tevel-6, and Tevel-7 were active for 24 hours. Stay tuned for future activations (Thanks to 4Z1DG)

+ Six days of SSTV from MKA ORBICRAFT-ZORKIY satellite. The satellite will transmit 6 different images in Robot 72 mode SSTV starting May 7 0000 GMT and ending May 13 0000 GMT. Frequency is 437.850 MHz. Tracking at https://www.n2yo.com/satellite/?s=47960. More details at https://r4uab.ru/2023/04/28/07-13-maya-2023-goda-planiruetsya-peredacha-sstv-so-sputnika-orbicraft-zorkiy/
(Thanks to AMSAT-UK & R4UAB)

+ Space.com recently published an article exploring the possiblity that the astronauts on Artemis 2 mission to orbit the moon, currently scheduled for late 2024, could utilize amateur radio. The article can be read at https://www.space.com/nasa-artemis-2-moon-mission-ham-radio

+ AO-73 is currently transmitting a Fitter message from the Radio Society of Great Britain celebrating the coronation of His Majesty King Charles III and Her Majesty Queen Camilla on May 6th. The message reads "Have a wonderful day celebrating the coronation of His Majesty the King and Her Majesty the Queen - from RSGB via FUNcube1" (Thanks to AMSAT-UK)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor,

Paul Stoetzer, N8HM
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